

SMORODINSKIY, Ya.A.

Theory of spiral amplitudes. Zhur. eksp. i teor. fiz. 45
no.3:604-609 S '63. (MIRA 16:10)

1. Ob'yedinennyy institut yadernykh issledovaniy.
(Nuclear spin)

SMORODINSKIY, Ya.A., prof. (Moskva)

Four neutrinos. Priroda 52 no.7:54-56 J1 '63.
(Neutrinos)

(MIRA 16:8)

SMORODINSKIY, Ya.A.

The Mössbauer effect and the theory of relativity. Usp. fiz.
nauk 79 no.4:589-594 Ap '63. (MIRA 16:3)
(Mössbauer effect) (Relativity (Physics))

AM. BARTSUMYAN, V.A., akademik; GINZBURG, V.L.; ZEL'DOVICH, Ya.B.,
akademik; PONTEKORVO, B.M.; SMORODINSKIY, Ya.A., doktor
matem. nauk, prof.; FOK, V.A., akademik, CHERNOV,
A.G.; FAYNBOYM, I.B., red.

[Birth and evolution of the galaxies and stars; the third
discussion] Rozhdenie i evoliutsiia galaktik i zvezd; be-
seda tret'ia. [By] V.A. Ambartsumian i dr. Moskva, Izd-vo
"Znanie," 1964. 27 p. (Novoe v zhizni, nauke, tekhnike.
Seria IX: Fizika, matematika, astronomiia, no.12)
(MIRA 17:6)
1. Chlen-korrespondent AN SSSR (for Ginzburg, Pontekorvo).

KUZNETSOV, B.G., prof.; IGUMENOV, I.Ya., akademik; GORODILSKIY,
Ya.A., prof.; TAMM, I.Ye., akademik; SHAPIRO, I.S., prof.;
CHELOV, A.G.; FAZL'YAN, I.B., red.

[Problems in the theory of elementary particles; fourth
talk] Problemy teorii elementarnykh chastits, be-
seda chetvertaya. V besede uchastvuyut: B.G. Kuznetsov i
dr. Moskva, Izd-vo "Znanie," 1964. 21 p. (Novoe v zhizni,
nauke, tekhnike. IX Seriya: Fizika, matematika, astrono-
miya, no.20) (MIR. 17:10)

ACCESSION NR: AP4037594

S/0056/64/046/005/1793/1808

AUTHORS: Vilenkin, N. Ya.; Smorodinskiy, Ya. A.

TITLE: Invariant expansions of relativistic amplitudes

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 5, 1964, 1793-1808

TOPIC TAGS: Laplace transformation, eigenfunction, relativity, hyperbolic equation, cone, Fourier series

ABSTRACT: In order to make use of the geometrical properties of the manifold on which relativistically invariant functions are defined, and in order to make use of the intuitive reasoning that can result from the use of geometric constructions, the authors consider the problem of expanding relativistic functions in series and integrals of eigenfunctions of the Laplace operator in Lobachevskiy space. . The problem consists in studying the Laplace operator on a double-sheeted hyperboloid (or the angular part of the d'Alambert operator)

Card 1/3

ACCESSION NR: AP4037594

in various coordinate systems. The systems of eigenfunctions constructed are generalization of nonrelativistic systems (spherical, cylindrical, and Cartesian). A fourth orthogonal system, called spherical, has no counterpart in nonrelativistic mechanics. The connection between the expansions obtained here and expansions of functions on a cone is demonstrated. By replacing the analysis of functions on a hyperboloid with an analysis of functions on a cone, the expansions obtained are in general not unitary, but become unitary for certain values of the quantum numbers. Orig. art. has: 84 formulas and 1 figure.

ASSOCIATION: Moskovskiy gosudarstvenny*y zaachny*y pedagogicheskiy institut (Moscow State Extension Pedagogical Institute); Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 21Nov63

DATE ACQ: 09Jun64

ENCL: 00

Card 2/3

ACCESSION NR: AP4037594

OTHER: 002

SUB CODE: MA, GP

NR REF SOV: 012

Card 3/3

SMORODINSKIY, Ya.A.; FRANK-KAMENETSKIY, D.A.

Iakov Borisovich Zel'dovich, 1914 - ; on his 50th birthday.
Usp: fiz. nauk 82 no.3:567-574 Mr '64. (MIRA 17:4)

AMERICAN V. Y. . .

Usp.fiz.nauk. S.
(MIRA 17:10)

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Complete set of [Illegible text] [Illegible text] [Illegible text]
[Illegible text] [Illegible text] [Illegible text] [Illegible text] [Illegible text]
[Illegible text] [Illegible text] [Illegible text] [Illegible text] [Illegible text]

J. 23760-66 ENT(1)/ENP(c) IJP(c)
ACC NR: AP6014810

SOURCE CODE: UR/0367/65/001/001/0163/0172

AUTHOR: Vinternitts, P.--Winternitz, P.; Smorodinskiy, Ya. A.--Smorodinsky, J. A.;
Uglirzh, M.--Uhlir, M. B42

ORG: Joint Institute of Nuclear Research (Ob'yedinennyy institut yadernykh issledo-
vaniy)

TITLE: Relativistic angular momentum theory

SOURCE: Yadernaya fizika, v. 1, no. 1, 1965, 163-172

TOPIC TAGS: electromagnetic field, physics

ABSTRACT: Explicit relations are given for the components of relativistic angular momentum in four coordinate systems in the Lobachevsky space of relativistic velocities. Complete sets of commuting operators determining these systems are considered. Classical dynamic quantities corresponding to invariants of subgroups of the Lorentz group are calculated, and the electromagnetic fields in which these are integrals of motion are considered. Orig. art. has: 3 figures and 34 formulas. [Based on authors' Eng. abst.] [JPRS]

SUB CODE: 20 / SUBM DATE: 27May64 / ORIG REF: 006 / OTH REF: 005

Card 1/1

L 27279-66 EWT(m)/T

SOURCE CODE: UR/0367/65/002/002/0392/0392

ACC NR: AP6016888

AUTHOR: Klepko, N. P.; Smorodinskiy, Ya. A.

ORG: Joint Institute of Nuclear Research, (Ob'yedinennyy institut yadernykh issledovaniy)

30
29
B

TITLE: Problem of spirality inversion

SOURCE: Yadernaya fizika, v. 2, no. 2, 1965, 392

TOPIC TAGS: particle scatter, nuclear physics

ABSTRACT: In this letter to the editors the authors refer to results from experiments in scattering of particles published by them in the ZhETF (Journal of Experimental and Theoretical Physics), No. 43, p 2173, 1962. According to the latter publication these results are invariant with respect to transformation of all phases, corresponding to spirality inversion, if none of the phases is fixed by dynamic considerations and it is impossible to construct a pseudoscalar from the elements of the experiment. In the present letter it is shown that more recent work by Kawaguchi, Ueda and Watari does not contradict their conclusion. An inaccuracy in the earlier work by the authors is pointed out, whereby the results of experiments accompanied by spirality in-

Card 1/2

L 27279-66

ACC NR: AP6016888

version remain invariant only if all the beams lie in one plane and the polarizations are normal to this plane. It is also pointed out that with these considerations there is no difference between cases of relativistic and nonrelativistic kinematics. The author thanks R.M. Rydin for discussions. [JPRS]

SUB CODE: 20 / SUBM DATE: 29Mar65 / ORIG REF: 002 / OTH REF: 002

Card 2/2 .CC

L 11912-66 EWT(m) DIAAP

ACC NR: AP6001162

SOURCE CODE: UR/0367/65/002/003/0543/0551

29
B

AUTHOR: ⁵⁵Nguyen Van Kh'yeu -- Nguyen Van Hieu; ⁵⁵Smorodinskiy, Ya. A.

ORG: ⁵⁵Joint Institute for Nuclear Research (Ob'yedinennyy institut yadernykh issledovaniy)

TITLE: Form factors and ^{19.55}interaction constants for the 56-plet of group SL(6)

SOURCE: Yadernaya fizika, v. 2, no. 3, 1965, 543-551

TOPIC TAGS: matrix element, strong nuclear interaction, electromagnetic interaction

ABSTRACT: The structure of matrix elements of vector and axial currents between the states of the 56-plet of the symmetry group SL(6) has been studied. It is shown that these matrix elements depend on six independent form factors $f_i(t)$. The matrix elements of a series of processes involved in electromagnetic and weak interactions, and also the meson-baryon vertex functions in strong interactions, are expressed in terms of these form factors. Some of the relationships used in this work have been obtained earlier by W. Ruhl (Preprint, CERN, 1965). Authors express their deep appreciation to N. N. ⁵⁵Bogolyubov and M. A. Markov for their interest in the work. Orig. art. has: 65 formulas.

SUB CODE: 20 / SUBM DATE: 28Mar65 / OTH REF: 014
Card 1/1 ⁵⁵HW

2

SMORODINSKIY, Ya.A., prof.

Spectra of elementary particles. Priroda 54 no.2:2-12 F '65.
(MIRA 18:10)

1. Ob"yedinennyy institut yadernykh issledovaniy, Dubna.

L 5086-66 EWT(d) IJP(c)

ACCESSION NR: AT5024115

UR/2136/65/000/838/0001/0021

37
31
8+1

AUTHOR: Vilenkin, N. Ya.; Kuznetsov, G. I.; Smorodinskiy, Ya. A.

TITLE: Eigenfunctions of the Laplacian realizing the representation of the groups U(2), SU(2), SO(3), U(3), and SU(3), and the symbolic method

SOURCE: Moscow. Institut atomnoy energii. Doklady, IAE-838, 1965. Sobstvennyye funktsii operatora Laplasya, realizuyushchiye predstavleniya grupp U(2), SU(2), SO(3), U(3), SU(3) i simvolicheskiy metod, 1-21

TOPIC TAGS: Laplace operator, characteristic function, function analysis, group theory

ABSTRACT: In order to find the irreducible representations of the groups U(n), in addition to the abstract-operative method, it is also possible to use the method employed by N. Ya. Vilenkin and Ya. A. Smorodinskiy (ZhETF, 46, 1793, (1964)). This method is based on the utilization of the Laplacian acting in the space of s_g -homogeneous polynomials of the $6\pi_4$ degree. The solution obtained is used for the realization of the representation of the groups U(2), SU(2), SO(3), U(3), and SU(3). "The authors thank Yu. A. Danilov for his interest in the work and for discussions." Orig. art. has: 4 figures, 59 formulas, and an appendix with 10 formulas.
Card 1/2

09010172

L 5086-66

ACCESSION NR: AT5024115

6

ASSOCIATION: Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii SSSR
⁴⁴₅₃ (State Committee for the Utilization of Atomic Energy SSSR); Institut atomnoy
energii im. I.V. Kurchatova (Institute of Atomic Energy)

⁴⁴₅₃ SUBMITTED: 00

ENCL: 00

SUB CODE: MA

NO REF SOV: 006

OTHER: 002

Card 2/2 *nd*

L 26686-66 EWT(d) IJP(c)

ACC NR: A16016899

SOURCE CODE: UR/0367/65/002/005/0906/0917

AUTHOR: Vilenkin, N. Ya.; Kuznetsov, G. I.; Smorodinskiy, Ya. A.--Smorodinsky, Ya. A.

ORG: none

TITLE: Laplace operator eigenfunctions which realize the representations of the groups $U(2)$, $SU(2)$, $SO(3)$, $U(3)$ and $SU(3)$, and a symbolic method

SOURCE: Yadernaya fizika, v. 2, no. 5, 1965, 906-917

TOPIC TAGS: Laplace equation, algorithm

ABSTRACT: The article presents a graphic method of solution of multidimensional Laplace equations which is applicable for both unitary and orthogonal groups. The use of symbols allows the formulation of a simple algorithm for writing the equations in new variables and solving them. The solutions obtained are used to realize the representations of the groups $U(2)$, $SU(2)$, $SO(3)$, $U(3)$, and $SU(3)$. Orig. art. has: 69 formulas. [JPRS]

SUB CODE: 12 / SUEM DATE: 06Apr65 / ORIG REF: 003 / OTH REF: 002
SOV REF: 003

Card 1/1 BLG

2

L 29892-66 EWT(d) IJP(c)

SOURCE CODE: UR/0367/66/003/002/0383/0395

ACC NR: AF6020116

AUTHOR: Kuznetsov, G. I.; Smorodinsky, Ya. A.

31
B

ORG: Joint Institute for Nuclear Research (Ob'yedinennyy institut yadernykh issledovaniy)

TITLE: Integral representation of relativistic amplitudes in the non-physical region

SOURCE: Yadernaya fizika, v. 3, no. 2, 1966, 383-395

TOPIC TAGS: mathematic operator, relativity principle, differential geometry, Laplace transform

ABSTRACT: Methods of ²integral geometry are used to obtain the expansion of amplitudes in the non-physical parts of the Mandelstam plane in terms of the eigenfunctions of the Laplace operator on three-dimensional manifolds. Formulae are obtained for the inverse transformation. All calculations are performed in the spherical coordinate system. Orig. art. has: 3 figures and 75 formulas. [Based on authors' Eng. abst.]
[JPRS]

SUB CODE: 12 / SUM DATE: 09Aug65 / ORIG REF: 008 / OTH REF: 001

Card 1/1 CC

L 24395-66 EWT(d) IJP(c)

ACC NR: AP6010986

SOURCE CODE: UR/0056/66/050/003/0653/0659

AUTHORS: Smorodinskiy, Ya. A.; Tugov, I. I.

31
B

ORG: Physicochemical Institute im. L. Ya. Karpov (Fiziko-khimicheskiy institut)

TITLE: Concerning complete sets of observables

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 3, 1966, 653-659

TOPIC TAGS: differential operator, second order differential equation, Hamiltonian, Schroedinger equation, line spectrum, eigenvalue, Euclidean space

ABSTRACT: The authors propose a method for writing down ¹⁶ $n - 1$ linearly-independent second-order differential operators which commute with the Hamiltonian and with each other in any coordinate system in which the variables of the corresponding Schroedinger equation in a Riemann space R_n can be separated. It is shown that there are 34

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L 24395-66

ACC NR: AP6010986

sets of the operators defined in these coordinate systems. The discrete and continuous spectra of the hydrogen atom are considered as examples. The separation constants are the eigenvalues of the operators. The equations for the 11 coordinate systems in which the variables can be separated in a three dimensional Euclidean space are also given. Orig. art. has: 16 formulas.

SUB CODE: 20/ SUBM DATE: 07Aug65/ ORIG REF: 003/ OTH REF: 003

Card

2/20²

ACC NR: A:7005444

SOURCE CODE: UR/0367/66/004/003/0625/0635

AUTHOR: Vinternitts, P.--Winternitz, P.; Smorodinskiy, Ya. A.--Smorodinsky, J. A.;
Uglirzh, M.--Uhlir, M.; Frish, I.--Fris, I.

ORG: Joint Institute for Nuclear Research (Ob"yedinennyy institut yadernykh
issledovaniy)

TITLE: Symmetry groups in classical and quantum mechanics

SOURCE: Yadernaya fizika, v. 4, no. 3, 1966, 625-635

TOPIC TAGS: quantum mechanics, quantum theory

ABSTRACT: All potentials having a dynamic symmetry group in a two-dimensional world are found. Classical and quantum motion in these potentials are investigated and it is shown that in all cases the symmetry group is $SU(2)$. The previously known ... potentials with higher symmetry (Coulomb potential, harmonic oscillator) are obtained as special cases. The authors thank V. Mandrosov for his research of the motion in these potentials. Orig. art. has: 45 formulas. [JPRS: 38,764]

SUB CODE: 20 / SUBM DATE: 22Jan66 / ORIG REF: 005 / OTH REF: 008

Card 1/1

ACC NR: AP6027543

SOURCE CODE: UR/0384/66/000/003/0014/0015

AUTHOR: Smorodinskiy, Ya. A. (Doctor of physico-mathematical sciences)

ORG: none

TITLE: The geometry of the universe and the problem of experimentation

SOURCE: Zemlya i vseleennaya, no. 3, 1966, 14-15

TOPIC TAGS: galactic structure, neutrino, noneuclidean geometry

ABSTRACT: In the present article, the author expresses the hope that the neutrino will become a valuable tool in the experimental study of the universe. The red shift in the spectra of most galaxies confirms that the galaxies are expanding. If the geometry of space is not euclidean, there is no basis to assume that it remains constant with time and that the properties of space remain constant with time. The discovery of radio frequency radiation at a wavelength of 7.5 cm supports the theory that the slowly expanding metagalaxy is nothing more than a mathematical equation which has been confirmed earlier by the Hubbel law. At the present time, finer details of this process are being discovered and these must be viewed with more care than in the past. The author speculates that the fate of the expanding universe may be associated with the fate of the neutrino which has zero mass and which, like light, may become a source of information on events in galactic space. Orig. art. has: 1 figure.

SUB CODE: 03/ SUBM DATE: none

Card 1/1

ACC NR: AT6027586

SOURCE CODE: UR/0000/66/000/000/0040/0045

AUTHOR: Smorodinskiy, Ya. A. (Doctor of physico-mathematical sciences)

ORG: none

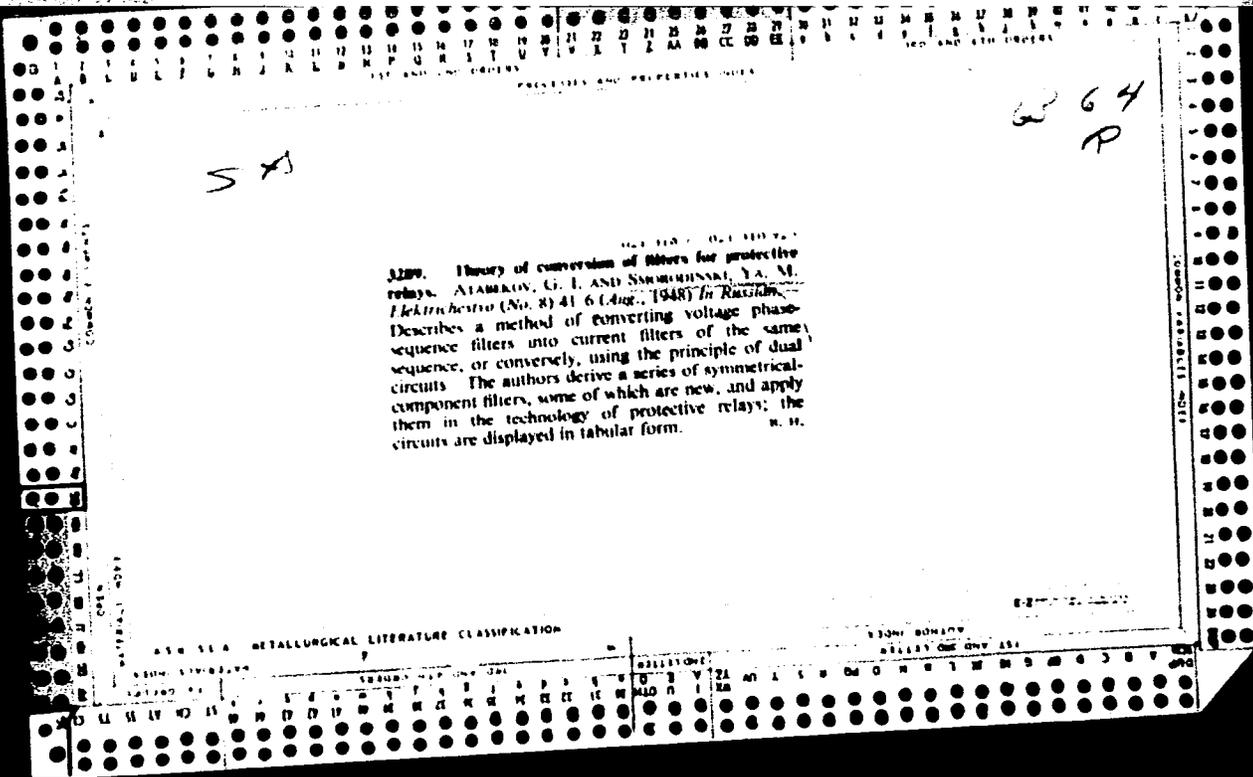
TITLE: Recession of galaxies and neutrinos in the cosmos

SOURCE: Zvezdy i vsolennaya (Stars and the universe). Moscow, Izd-vo Znaniye, 1966, 40-45

TOPIC TAGS: gravitation red shift, galaxy, neutrino, gravitation field, pi meson

ABSTRACT: Remote galaxies and their clusters have a spectrum characterized by the red shift. The relative value of the red shift depends on the distance of the observer on Earth from the remote radiant object. The distances in space have been reevaluated several times in the past and now they are twice the values accepted prior to the Second World War. The Hubble law, derived from observations, indicated the proportional character of the relations or the changes of the wavelength to the red side with the distance to the remote object. The radiant object at the moment of observation is seen not in its present state but as it was many years ago, i.e., it is rejuvenated by a value equal to the distance from the remote object divided by the speed of light. Because all distances in the universe have grown, the wavelengths have also grown correspondingly. This has indicated a decrease in the energy spent on changing the energy

Card 1/2



TA 39/49T26

SMORODINSKIY, YA. M.

USSR/Electricity
Voltage Filters
Filters

Apr 49

"Transformation Theory of Symmetrical Component
Voltage Filters," Prof G. I. Atabekov, Dr. Tech Sci,
Ya. M. Smorodinskiy, Cand Tech Sci, 1 p

"Elektrichestvo", No 4

Review of P. L. Kalantarov's article, "Filters for
Separating the Symmetrical Components of Asymmetrical
Three-Phase Circuits," in which the connection
of various filter circuits is discussed.

39/49T26

SMORODINSKIY, Ya.M.

000005

PHASE I

TREASURE ISLAND BIBLIOGRAPHIC REPORT

Call No.: TNC26.T54

BOOK

- Authors:
- FFROIMOVICH, Yu.E., Cand. of Tech. Sciences
 - KRICHEVSKIY, G.M., Engineer
 - LEVITANSKIY, B.A., Engineer
 - MALAYA, R.Yu., Cand. of Tech. Sciences, deceased.
 - NEIFAKH, G.M., Cand. of Tech. Sciences
 - POPOV, M.D., Engineer
 - SMORODINSKIY, Ia.M., Cand. of Tech. Sciences
 - SOSUNOV, M.N., Engineer
 - STASYUK, V.N., Engineer
 - TAITS, A.A., Engineer
 - FEDOSEEV, L.M., Engineer
 - FEIGIN, V.I., Engineer
 - CHELYUSTKIN, A.B., Engineer
 - SHERENTSIS, A.N., Engineer

Full Title: A HANDBOOK FOR ELECTROTECHNICAL PERSONNEL IN FERROUS METALLURGICAL INDUSTRIES.

Transliterated Title: Spravochnik elektrika predpriyatii chernoi metallurgii

Publishing Data

Originating Agency: None.

Publishing House: State Publishing House of Scientific-Technical Literature on Ferrous and Nonferrous Metallurgy (Metallurgizdat), Moscow.

Date: 1952

No.pp.: 1167

No. copies: 14,000

1/2

SMORODINSKIY, IA.M.

2/2

00000058

Call No.: TN686.T54

Full Title: A HANDBOOK FOR ELECTROTECHNICAL PERSONNEL IN FERROUS METALLURGICAL INDUSTRIES

Editorial Staff

Compiler: Tikhomirov, I.G., Engineer

Tech. Ed.: None.

Editors: Shalyapin, M.G.

Appraiser: None.

Levitanskiy, B.A.

Text Data

Coverage: A detailed handbook containing technical data on specifications, standards, design and operation of various types of electrical equipment in ferrous metallurgical industries: electric power supply plants and their distributing systems, transforming stations and transmission lines (high and low tension), blast furnace works, rolling mill plants, open-hearth plants, mines, electrical steel smelting and ferroalloy furnaces, sintering plants, coke plants, and electrical transport. Tables and diagrams. Subject index.

Purpose: A handbook for electrotechnical personnel, engineering technicians, machine operators, and planning personnel of metallurgical industries.

Facilities: None.

No. of Russian references: References listed at end of each chapter.

Available: Library of Congress.

SMORODINSKIY, Ya.M., Kandidat tekhnicheskikh nauk; ZNAMENOK, R.T., inzhener;
BULHGOL'IZ, V.P., inzhener.

Protection of electric motors by the use of a totalizer with symmetrical
components. Ugol' 31 no.8:38-40 Ag '56. (MLRA 9:10)
(Electricity in mining) (Electric motors) (Automatic control)

SHISHKIN, N.F.; kand.tekhn.nauk; SMORODINSKIY, Ya.M., kand.tekhn.nauk;
MIKHEYEV, Yu.A., inzh.; SHALAGINOVA, T.S., inzh.; GIMOYAN, G.G.,
kand.tekhn.nauk.

Filter-type relay protection for electric motors. Elektrichestvo
no.12:60-64 D '57. (MIRA 10:12)

1.Vsesoyuznyy nauchno-issledovatel'skiy ugol'nyy institut (for
Shishkin) 2.Donetskiy nauchno-issledovatel'skiy ugol'nyy institut
(for Gimoyan).

(Electric motors)

SMORODINSKIY, Ya. M.

PHASE I BOOK EXPLOITATION

SOV/3836

Velichkin, Oleg Dmitriyevich, Yefim Vol'fovich Lysenko, and Yakov Mikhaylovich
Smorodinskiy

Primeneniye poluprovodnikovyykh diodov i triodov v ustroystvakh releynoy zashchity i avtomatiki energosistem (Use of Transistor Diodes and Triodes in Relay Protection and in the Automation of Power Systems) Moscow, 1958. 68 p. (Series: Peredovoy opyt proizvodstva. Seriya "Promyshlennaya energetika" : vyp. 11-12) 4,000 copies printed.

Sponsoring Agency: Obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy RSFSR; Moscow. Dom nauchno-tekhnicheskiy propagandy im. F. E. Dzerzhinskogo.

Ed.: M.I. Tsarev; Tech. Ed.: R.A. Sukhareva; Resp. Reviewer for this Book:
I.A. Manin.

PURPOSE: This booklet is intended for persons interested in relay protection and automation systems.

Card 1/5

Use of Transistor Diodes (Cont.)	SOV/3836
Circuit separation by means of diodes	7
Formation of circuits with nonlinear characteristics	8
Use of reference voltage diodes	9
Use of diodes for temperature compensation	9
Junction-type transistor triodes and their use	10
General characteristics of junction-type transistor triodes	10
Ch. II. Comparison Diagrams for Magnitude and Phase of Two Vectors	20
Diagrams for comparison of phase	20
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Diagrams for phase comparison based on the pulse principle	26
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Amplifier operating by means of a null indicator	29

Card 3/5

SMORODINSKIY, Ya.M.

SHISHKIN, Nikolay Fedorovich, kand.tekhn.nauk; OLEKSEVICH, Valeriy Pavlovich;
DANIILIN, Petr Yakovlevich; MIKHEYEV, Yuriy Aleksandrovich; SYCHEV,
Leonid Ivanovich. Prinimali uchastiye: SHALAGINOVA, T.S., inzh.;
SMORODINSKIY, Ya.M., kand.tekhn.nauk; KALINICHENKO, M.F., inzh.;
CHASHKIN, Ye.V., inzh.; ASTAF'YEV, V.D., inzh.; PROKOP'YEV, V.I.,
vedushchiy konstruktor; ROGOV, V.A., starshiy master; MOSKALENKO, V.M.,
laborant; GERASIMOV, N.F., laborant; POPOV, N.A., kand.fiziko-matem.
nauk; KALINICHENKO, M.F., inzh.; LYUBIMOV, N.G., otv.red.; ALADOVA,
Ye.I., tekhn.red.; PROZOROVSKAYA, V.L., tekhn.red..

[Protection of the electric equipment and cable networks in mines]
Zashchita shakhtnykh elektroustanovok i kabel'nykh setei. Pod red.
N.F.Shishkina. Moskva, Ugletekhizdat, 1959. 242 p. (MIRA 12:3)
(Electricity in mining) (Electric cables)

PHASE I BOOK EXPLOITATION

SOV/5473

Gornoye delo; entsiklopedicheskiy spravochnik. t. 8: Statsionarnoye elektromekhanicheskoye oborudovaniye. Elektrosnabzheniye shakht (Mining Industry; an Encyclopedic Handbook. v. 8: Stationary Electro-mechanical Equipment. Electric Power Supply to Mines) Moscow, Gosgortekhzdat, 1960. 784 p. Errata slip inserted. 18,500 copies printed.

Chief Ed.: A. M. Terpigorev (Deceased); Members of the Editorial Board: A. I. Baranov, F. A. Barabanov (Deceased), A. A. Boyko, V. K. Buchnev, A. N. Zaytsev; Deputy Chief Eds.: I. K. Kit and N. V. Mel'nikov; I. N. Plakain, N. M. Pokrovskiy, A. A. Skochinskiy (Deceased), A. O. Spivakovskiy, I. K. Stanchenko, A. P. Sudoplatov, A. V. Topchiyev, S. V. Troyanskiy, A. K. Kharchenko, L. D. Shevyakov and M. A. Shchedrin; Editorial Board for this volume: Resp. Ed.: F. A. Barabanov; Deputy Resp. Ed.: Z. M. Melamed; N. A. Arzamasov, G. M. Yelanchik, V. K. Yefremov, B. I. Zasadych, I. M. Zhumakhov, N. A. Letov, P. P. Nesterov, I. A. Rabinovich, K. I. Skorkin, and V. A. Sumchenko; Authors: G. A.

Card 1/16

26

Mining Industry (Cont.)

SOV/5473

Babak, Candidate of Technical Sciences, V. D. Belyy, Professor, Doctor of Technical Sciences, K. S. Borisenko, Candidate of Technical Sciences, A. G. Borumenskiy, Candidate of Technical Sciences, I. V. Brusilovskiy, Candidate of Technical Sciences, A. R. Bushel', Candidate of Technical Sciences, V. P. Bukhgol'ts, Engineer, M. N. Vasilevskiy, Candidate of Technical Sciences, A. N. Vas'kovskiy, Engineer, B. N. Vlasenko, Engineer, I. Ya. Gershikov, Engineer, V. G. Geyer, Professor, Doctor of Technical Sciences, A. D. Dimashko, Engineer, V. S. Dulin, Candidate of Technical Sciences, I. L. Lokshin, Engineer, B. M. Melamed, Engineer, Yu. A. Mikheyev, Engineer, V. P. Morozov, Engineer, M. I. Mushkatin, Engineer, V. S. Pak, Academician, I. M. Perskaya, Engineer, N. M. Rusanov, Candidate of Technical Sciences, G. P. Savel'yev, Candidate of Technical Sciences, Ya. M. Smorodinskiy, Candidate of Technical Sciences, K. A. Ushakov, Honored Scientist and Technologist, Professor, Doctor of Technical Sciences, B. M. Furmanov, Engineer, and N. N. Chernavkin, Engineer. Eds.: Ya. M. Drozdov, Engineer, B. I. Zasadych,

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Mining Industry (Cont.)

SOV/5473

Candidate of Technical Sciences, N. S. Karpyshev, Candidate of Technical Sciences, N. A. Letov, Candidate of Technical Sciences, Z. M. Melamed, Candidate of Technical Sciences, Yu. A. Mikheyev, Engineer, V. P. Morozov, Engineer, V. I. Polikovskiy, Professor, Doctor of Technical Sciences, I. A. Rabinovich, Engineer, M. S. Rabinovich, Candidate of Technical Sciences, I. A. Raikin, Engineer, V. S. Tulin, Engineer, S. Ye. Unigovskiy, Engineer, K. A. Ushakov, Honored Scientist and Technologist, Professor, Doctor of Technical Sciences, M. M. Shemakhanov, Candidate of Technical Sciences, P. F. Shishkov, Candidate of Technical Sciences, and V. B. Yablonovskiy, Engineer; Eds. of Publishing House: N. A. Arzamasov and T. I. Rybal'nik; Tech. Ed.: V. L. Prozorovskaya and M. A. Kondrat'yeva.

PURPOSE: This handbook is intended for mining and mechanical engineers as well as for other skilled personnel of the mining industry concerned with the handling and operation of various installations and equipment used in mines.

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Mining Industry (Cont.)

COVERAGE: Volume VIII of the mining handbook contains detailed information on mine hoisting installations, machines and equipment, mine ventilation units, duct systems, dewatering facilities, various types of pumps, pump motors, pumping stations, and the automatic remote control of these units. The handbook also describes and explains the operation of the air compression units and compressors. Heat-generating and heat-supply equipment of mines is described, as are the electric power supply systems and other electrical equipment such as transformers, power distribution systems, and grounding devices. Telephone communication and signaling systems used in mines are also treated. No personalities are mentioned. Each part of the handbook is accompanied by references, mostly Soviet.

TABLE OF CONTENTS [Abridged]:

PART I. MINE HOISTING UNITS

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The determination of viability in a bacterial sample. A A SMODONTIRY. *Arch. Biol. Nauk* 28, 383-384(1928).—The numbers of viable bacteria present in a definite amt of culture before and after treatment with a disinfecting or injurious agent were detd by a diln method. Virulent cultures of *B. typhi murium*, *B. paratyphi*, *B. Breislev* and *B. Dawson* when subjected to various concns. of HgCl₂ or I₂ lost not only in number but in virulence. PhOH, HCHO and heating in liquid or solid media did not affect the virulence. Heating of the broth cultures to a partial breaking up of the cells led to an adsorption of decompn. products by the surviving cells and hampered their subsequent growth in fresh broth. Strong adsorbing agents (animal charcoal, gelatin, defibrinated blood) restored the growth of such impaired cells. W A PRYZWIG

METALLURGICAL LITERATURE CLASSIFICATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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Prophylactic and curative action of Streptocide on experimental streptococcus processes in white mice. A. A. Smorodintsey and N. I. Bychenkova. *Soviet. Vychet. obrat. Zhan.* 41, 589-95 (1937); *Chem. Zentr.* 1938, II, 2388-9. Expts. on white mice with the prepn. Streptocide, analogous to penicillin, showed that repeated injections of the prepn. greatly increased the resistance to subsequent infection, the prophylactic action increasing with the no. of injections and the dose. When the infection was already present, a decrease of 20-30% in fatality was obtained if the Streptocide was injected within 24 hrs. after the onset of the infection. M. G. Mironov.

ASB S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

SMORODINSEV, A. A.

"Results of the Work of the VIEM Session in the Study of Encephalitis and Nephroso-Nephritis," Zhur. Microbiol., Epidemiol. i Immunobiol. No. 8, 1940. Published by State Publ. House of Medical Literature, Moscow, pp. 88-89.

S. R. LINDEN, A.A. and S. L. SERINA, S.S.I.

The role of phagocytic apparatus in the mechanism of immunity against influenza. Arch. Biol. Sciences, Bd. 59:20, 1940, Moscow. Arch. f.d. ges. virologie, Bd. 2, 141.

S. D. ANTUNOV, A.A. and S. IGUMINA, S.I.

The role of the humoral factor in the mechanism of immunity against influenza.
Arch. Biol. Sciences, Bd. 5:3, 1940, Moscow. Arch. f.d. ges. Virusforschung,
Bd. 2, 1941.

SIRODOTSEV, A. A., PETUCHENKO, E. A., GUSEV, I. S. DOBYNINA, A. I. and
NEUSTROEV, V. D.

"Entomology and Prophylaxis of the Autumnal Form of Encephalitis in Primorskiy Kray,
Medgiz, 1941.

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CA

Chemotherapy of gas gangrene in white mice. A. A. Smorodintsev and A. I. Drozhyshevskaya. *Z. Mikrobiol. Epidemiol. Immunitätsforsch. (U.S.S.R.)* 1943, No. 6, 46-53.—The effect of various sulfonamide preps. on exptl. gas gangrene in white mice was studied. Infections were produced subcutaneously, with cultures of *B. perfringens*, *B. oedematiens*, *V. septique*, and *B. histolyticus*. Standard sulfonamide preps., were effective in *B. perfringens*, *B. oedematiens*, and *V. septique* infections, providing the original infecting dosage was not too large. These preps. were ineffective against *B. histolyticus* infections. The effectiveness of the treatment depended on the kind and concn. of infecting agent, the dosage of the sulfonamide prep., and especially on the time after infection that the treatment was begun. S. Gottlieb

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SOMORODINTSEY, A.A., AL'TSHULER, I.S., DURNAYEVSKIY, M.I., KLILEV, N.V., SHIRALOV, A.V.
DARSHNEVICH, V.

Prophylaxis of hemorrhagic Nephroso-Nephritis, Russian pamphlet (Etiologiya i Klinika
Gemorragicheskogo Nefrozo-Nefrita, pub by Medgiz, 1944.
CTS 30, 29 Apr 1952

S. G. OBLITSKY, A. A.

BT-1371/Epidemiological peculiarities of hemorrhagic nephros-nephritis⁷
Epidemiologicheskie osobennosti gemorragicheskogo nefroza-nefrita. No. 2, pp. 18-21;
from: Etiologiya i Klinika Gemorragicheskogo Nefroza-Nefrita, A. A. Smorodintsev, ed.
Moscow, 1951.

ca

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PROCESSES AND PROPERTIES, NO. 1

Early diagnosis of typhus fever through detection of a specific antigen in the blood. A. A. Semorodintsev and A. I. Orshynskaya. *Ann. Rev. Soviet Med.* 1, 229-32 (1944)(condensed from an original Russian paper).—A modification of the complement-fixation reaction can be used for rapid serol. diagnosis of typhus fever. The sp. typhus fever antigen can be detected in the patient's serum by 18-hr. interaction at a temp. of 0° with antibodies of a convalescent serum. The intensity of the reaction and the frequency of pos. results are especially great during the initial stages of the disease. The antigens can be detected up to the 6th day of illness. The reaction is sp. for typhus fever and is neg. with the sera of patients affected with other types of disease. Exams. of 240 patients demonstrated the possibility of obtaining a correct diagnosis of typhus fever while the Weil-Felix reaction is still neg. W. R. Heim

ALPHABETICAL LITERATURE CLASSIFICATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

SMORODINTSEV, A. A.

RT-13-5 /Etiology of hemorrhagic nephroso-nephritis/ Etiologia gemorragicheskogo nefrozo-nefrita. No. 5 (pp. 23-38) from:
Etiologia i Klinika Gemorragicheskogo Nefrozo-Nefrita, A. A. Smorodintsev, ed.
Moscow, 1944.

SMODININ, A. A. - GERM

BT-1377 [Clinical symptomatology of experimental hemorrhagic nephro-hepatitis]
Klinicheskaiia simptomatologiya eksperimental'nogo gemorrazicheskogo nefrozonefrita.
No. 6 (pp. 38-46) from:
Etiologiya i Klinika Gemorrazicheskogo Nefroze-Nefrita, A. A. Smorodintsev, ed.
Moscow, 1974.

SIGOURDSON, A. A. (1945)

"Second Communication: The Role of the Phagocytal Apparatus of Actively Immunized Animals in the Control of Influenza Infections," ZhkEI, 3, 21, 1945

SMORODINTSEV, A. A. and MUROVANNYI, I. L.

"Epidemiological Peculiarities of the Hemorrhagic Nephroso-Nephritis," Zhur. Mikrobiol. i Immuniobiol. No. 6, 1945, published by Medgiz, Moscow.

AND CHINISSEV, A. A.

"The Problem of the Biological Nature of Viruses"

Bulleten Eksperimental'noy Biologii i Meditsiny, Vol. 19,
Nos. 1-2, pp 3-13, 1945

SHORODI, TSEV, A. A.

SHORODI, TSEV, A. A. "New developments in the epidemiology and specific prophylaxis of gripe", *Voprosy med. virusologii*, Issue 1, 1948, p. 192-29, - Bibliog: p. 127-29.

SO: M-3082, 11 March 53, (Letovis 'nykh Statey, No. 10, 1949).

2871 S. aradimov, A. A. Isosentia Aradimov 7 Et Aradimov -
Aradimov 7 Aradimov Aradimov. Prav 8-7 Aradimov Aradimov
Aradimov, Aradimov Aradimov Aradimov, Aradimov. Aradimov Aradimov
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Aradimov Aradimov, Aradimov.

Aradimov: Zhurnal Aradimov, No. 3, Moscow, 1948

Also: Zhurnal mikrobiologii, epidemiologii i immunobiologii, No. 12, 1948, pp. 82-86.

SNORODINTSEV, A. A.

"Method of Laboratory diagnosis of Influenza," Zhurnal mikrobiologii, epidemiologii i immunobiologii, No. 12, 1948, pp. 31-39.

С. 100-101, 102.

1203 Сорокин, В. В. "Православный (византизм) вопрос". (История советского
церковно-государственных отношений, 1917-1927 гг. Изд-во. Совет, 1948, кн. 14,
1948, с. 100-101. - Название: Православие.

30: "Летопись церковно-государственных отношений", кн. 10, Москва, 1948.

SMCRODINTSEV, A. A.

"Acute catarrh of the respiratory tract," Sov. vracheb. sbornik, Vol. 15, 1949,
pp. 1-9.

SMOROBINTSEV, A. A. and CHALKINA, O. M.

"Active immunization against influenza by vaccines of live weak virus," Sov. vracheb. sbornik, Vol. 15, 1949, pp. 16-19.

SMORODINTSEV, A. A. and DREYZIN, R. S.

"Antigenic Properties of the Substances of Erythrocytes Which are Effective
in the Fixation of the Influenza Virus," Problema i Ostrykh Katarrov Verkhnikh
Dykhatel'nykh Putey, Moscow, 1952.

SMORCDINISEV, A. A.; LUZANINA, T. Ya.; MOROZENKO, M. A.

"The Etiology and Laboratory Diagnosis of Influenza," Problema Grippa i Ostrykh Katarrov Verkhnikh Dykhatel'nykh Putey, Moscow, 1952, pp 5-7.

SMORODINTSEV, A. A.

"A New Method of Setting Up the Reaction of Complement Fixation for the Rapid Diagnosis of Influenza and Other Virus Infections," Problema Grippa i Ostrykh Katarrov Verkhnikh Dykhatel'nykh Putey, Moscow, 1952, pp. 27, 28.

SMORODINTSEV, A. A. and CHALKINA, O. M.

"Materials for the Specific Prophylaxis of Influenza," Problema Grippa i Ostrykh Katarrov Verkhnikh Dykhatel'nykh Putey, Moscow, 1952, pp 59,60.

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.36

СМЕРДИНЦОВ, А

А

Семороздический нефро-нефрит (Moronogenic Nephrosonephritis, by)
A. A. Smorodintsev, V. G. Gudakov, i A. V. Gurilov. Moskva,
Medgiz, 1953.

124 p. illus., tables

"Literatura" p. 122-(125)

USSR/Medicine - Virus Diseases, Influenza Mar 53

"Etiology and Laboratory Diagnosis of Influenza,"
A. A. Smorodintsev, N. S. Klyachko, T. Ya. Luzy-
anina, M. A. Morozenko, Ye. S. Shikina, I. A. Yuras,
V. P. Korotkova, Div of Virology, Inst of Exptl Med,
Acad Med Sci USSR; Inst of Epidemiol Imeni Pasteur

"Zhur Mikrobiol, Epidemiol, i Immunobiol" No 3,
pp 69-78

At present, the subtype A₁ predominates in the USSR.
The antigenic structure of A₁ isolated during the
past few years is polymorphic: it is necessary to

(1)

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supplement cross-neutralization by cross-adsorption
of antibodies according to a new method developed
by the authors. Smorodintsev's rapid method of
diagnosing influenza by the reaction of complement
fixation is effective in 50% of the cases on sputum
examined during the first week after infection; it
is less effective on serum. The reaction of hemag-
glutination is effective in 40% of the cases when
carried out under proper conditions with the use
of human erythrocytes of the O group. It is neces-
sary to produce and supply diagnostic preparations
literally "diagnostica" equally suitable for hemo-
agglutination and complement fixation (dry A, A₁,
244744

(2)

and B diagnostica from eluates or infected chicken
embryos); to provide dry purified anti-influenza
horse sera suitable for both hemagglutination and
complement fixation; to supply from a central point
through donor stations, human O-erythrocytes.

(3)

244744

SMORODINTSEV, A.A., professor, zaveduyushchiy; DROBYSHEVSKAYA, A.I.; GULAMOVA, V.P.; IL'YENKO, V.I.; FEDORCHUK, L.V.

Etiology of the neurovirus infection of biphasic virus meningo-encephalitis. Zhur.mikrobiol.epid. i immun. no.5:47-54 My '53. (MLSA 6:8)

1. Otdel virusologii Instituta eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR. (Brain--Inflammation) (Meningitis)

It has been shown that the causative factor of 2-stage meningo-encephalitis is a neurotropic virus which resembles that of tick encephalitis. It is similar in its antigenic structure and reactions to the viruses of Western tick encephalitis, but can be distinguished from them by reason of its different action on white mice. Two-stage meningoencephalitis has nothing in common with listerellosis.

253T63

SMORODINTSEV, A.A.; ALEKSEYEV, B.P.; GULAMOVA, V.P.; DROBYSHEVSKAYA, A.I.;
IL'YENKO, V.I.; KLENOV, K.N.; CHURILOVA, A.A.

Epidemiologic characteristics of biphasic virus meningo-encephalitis. Zhur.
mikrobiol. epid. i immun. no.5:54-59 My '53. (MLA 6:8)

1. Otdel virusologii Instituta eksperimental'noy meditsiny Akademii medi-
tsinskikh nauk SSSR i tulyaremiynoy stantsii.
(Brain--Inflammation) (Meningitis)

SMORODINTSEV, A. A.

Oct 53

USSR/Medicine - Influenza Vaccines

"Experience in the Application of Living Anti-Influenza Vaccine," A. A. Smorodintsev,
O. M. Chalkina, I. M. Ansheles, Div of Virology, Inst of Exptl Med, Acad Med Sci USSR;
Div of Gen Epidemiol, Leningrad Inst of Epidemiol im Pasteur
Zhur Mikro Ebid i Immun, No 10, pp 52-57

Administration of influenza vaccine in the form of nose drops or by inhalation is simpler than administration by subcutaneous injection. Live allantoic influenza vaccine does not require concen; it is effective and cheaper than killed vaccine. To restore the virulence of weakened vaccine production strains of types A and B, selection of immunogenic allantoic strains adaptable to mucous membranes of the respiratory tract of healthy humans was practised. These strains were then brought to the right virulence by repeated passages through the mucous membrane of human subjects. Good results were achieved in 1949 with this type of vaccine applied for prophylactic purposes in a liquid or powdered state.

266T19

SMORODINTSEV, A.A., professor

Influenza; etiology, laboratory diagnosis, immunology. Introduction.
Trudy AMN SSSR 28:v-4 '53. (MLRA 7:8)

1. Chlen-korrespondent AMN SSSR.
(INFLUENZA,)

SMORODINTSEV, A.A.

SMORODINTSEV, A.A.; DREYZIN, R.S.

Biological and antigenic properties of substances fixing influenza viruses on the erythrocytes. Trudy AMN SSSR 28:59-82 '53. (MLRA 7:8)

1. Iz Otdela virusologii Instituta eksperimental'noy meditsiny AMN SSSR.

(INFLUENZA VIRUSES,

fixation on erythrocytes, biol. & antigenic properties of fixing substances)

(ERYTHROCYTES,

fixation of influenza viruses, biol. & antigenic properties of fixing substances)

SMORODINTSEV, A.A.

Specific prophylaxis of influenza with living vaccine. Trudy AMN
SSSR 28:217-226 '53. (MLRA 7:8)

1. Iz otdelov virusologii Instituta eksperimental'noi meditsiny
AMN SSSR i Instituta epidemiologii i mikrobiologii im. Pastera.
(INFLUENZA, prevention and control,
vacc., living vaccine)
(VACCINES AND VACCINATION,
influenza, living vaccine)

SMORODINTSEV, A.A.; DROBYSHEVSKAYA, A.I.; IL'YENKO, V.I.

Etiology and immunology of "two-wave" virus meningo-encephalitis.
Nov. med. no. 38:44-51 '53. (MLRA 7:5)

1. Iz Otdela virusologii Instituta eksperimental'noy meditsiny
Akademii meditsinskikh nauk SSSR. (Brain--Inflammation)

SMORODINTSEV, A.A., professor; KRIVISKIY, A.S.

Variability in viruses. Priroda 42 no.12:34-44 D '53.

(MLBA 6:11)
(Viruses)

SMORODINTSEV, A.A.

SMORODINTSEV, A.A., professor, redaktor; SINITSKIY, A.A., redaktor;
RULOVA, M.S., tekhnicheskiiy redaktor.

[Neurovirus infections; etiology, immunology, clinical recurrent aspects of epidemic meningo-encephalitis and Japanese encephalitis]
Neirovirusnye infektsii; etiologiya, immunologiya, klinika dvukh-volnovogo virusnogo meningo-entsefalita i iaponskogo entsefalita.
[Leningrad] Gos. izd-vo med. lit-ry, 1954. 339 p. (MLRA 7:10)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Smorodintsev).
(Brain--Inflammation)

SMORODINTSEV, A.A.

Problems in control of influenza according to new data. Zhur.mikrobiol.
epid. i immn. no.9:22-23 S '54. (MLBA 7:12)

1. Iz Instituta eksperimental'noy meditsiny AMN SSSR.
(INFLUENZA, prevention and control,
Russia)

SMORODINTSEV, A.A.; SLYACHKO, N.S.

Specific prevention of mumps; preliminary communication. Zhur.
mikrobiol. epid. i immun. no.11:6-11 N 154. (MLRA 8:1)

1. Iz otdela virusologii (zav. prof. A.A.Smorodintsev) Instituta
epidemiologii, mikrobiologii i gigiyeny imeni Pastera (dir. N.P.
Ivanov)

(MUMPS, prevention and control,
vacc.)

(VACCINES AND VACCINATION,
mumps vacc.)

SMORODINTSEV, A.A.

[Influenza and its prevention] Gripp i bor'ba s nim. [Leningrad]
Otdel., 1955. 23 p. (MLRA 8:12)
(INFLUENZA)

SMORODINTSEV, A.A., redaktor; LILENKO, S.I. redaktor; KHARSH, G.A.
tekhnicheskiy redaktor.

[Problems in the pathogenesis and immunology of virus infections.]
Voprosy patogeneza i immunologii virusnykh infektsii. (Leningrad)
Gos. izd-vo meditsinskoi lit-ry, Leningradskoe otd-nie, 1955. 479 p.
(MLRA 8:8)

1. Chlen-korrespondent ~~AMN SSSR~~ (for Smorodintsev).
(Virus diseases)

SMORODINTSEV, A.A., professor.

Scientific activities of virological institutions of the
Czechoslovak Republic. Zhur. mikrobiol. epid. i immun. no.12:112-118
D '55. (MLRA 9:5)

(CZECHOSLOVAKIA--VIRUS RESEARCH)

SMORODINCEV, A. A.
EXCERPTA MEDICA Sec.4 Vol.9/11 Microbiology, etc. Nov 56

2756. SMORODINCEV A. A. Virol. Otd. Est. Exp. Med. AMN SSSR, Leningrad.
*Dvojvlňová vírusová meningoencefalitída Two-wave virus meningo-
encephalitis BRATISLAVSKÉ LEKÁRSKÉ LISTY 1955, 5/7 (385-394)

A new disease due to neurotropic virus is described. It was discovered in the USSR in 1948. The aetiological agent is a filtrable virus biologically related to spring-summer encephalitis and louping illness virus. The virus is transmitted by the bite of ticks (*Ixodes ricinus* and *Ixodes persulcatus*) or by the milk of goats infected by ticks. In accordance with the source of infection the disease appears either as sporadic, when the transfer is made by ticks, or as a familial one or group infection, when the virus enters the host organism through consumption of virus-contaminated goat milk. Experimental studies showed that after subcutaneous inoculation of virus the infectious agent appears in the milk of goats, sheep, mice and game-pigs, which are susceptible to infection, but not in the milk of cows, white rats and rabbits, which are resistant to the infection. From the clinical standpoint two features are most distinct: two-wave pyrexia, generally with a more serious second attack and regular benign course without deaths in contradistinction to the spring-summer encephalitis. Detailed characteristics of clinical course, differential diagnosis, treatment and preventive measures are described.

Pešek - Brno (XX,4,6,7,8,17)

SMORODINCEV, A. A.

Etiology, epidemiology, and specific prevention of influenza.
Bratisl. lek. listy 35 no.8:449-458 1955.

1. Z Virologickeho oddelenia Ustavu experimentalnej mediciny
AMN SSSR v Leningrade.

(INFLUENZA,
etiol., epidemiol., & vacc.)

SWORDNICEV, A. A.. clen korespondent. AMN SSSR

Characteristics of protective mechanisms in antivirus immunity
and their relation to physiological factors. Bratisl. lek.
listy 35 no.9:513-529 1955.

(VIRUS DISEASES, immunology,)

SMORODINTSEV, Anatoliy Aleksandrovich, laureat Stalinskoy premii, professor;
KRIVISKIY, Aleksandr Samsonovich, kandidat biologicheskikh nauk;
BELIKOV, L.A., polkovnik meditsinskoy sluzhby, dotsent, redaktor;
KADER, Ya.M., redaktor; ALYMOV, A.Ya., polkovnik meditsinskoy sluzhby,
professor, redaktor; LEVINSKAYA, N.Z., tekhnicheskii redaktor.

[The world of microbes] Mir mikrobov. Izd. 2-oe, perer. Moskva, Voen.
izd-vo Ministerstva obor. SSSR, 1956. 177 p. (MLRA 9:6)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Smoro-
dintsev). 2. Konsul'tant chlen-korrespondent Akademii meditsinskikh
nauk SSSR (for Alymov).

(Micro-organisms)

SMORODINTSEV, A.A.

Course of experimental influenzal infection in white mice and rats following total body X-irradiation. Vop.virus. 1 no.3:32-35 My-Je '56.
(MLRA 10:1)

1. Bakteriologicheskaya laboratoriya Tsentral'nogo nauchno-issled. rentgeno-radiologicheskogo instituta i otdela virusologii Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad

(INFLUENZA, experimental,

eff. of x-ray total body irradiation in white rats & mice (Rus))

(ROENTGEN RAYS, effects,

total body, on exper. influenza in white rats & mice (Rus))

EXCERPTA MEDICA Sec 4 Vol. 10/10 Microbiology Oct 57

2384. SMORODINTSEV A. A. Inst. of Exp. Med., Acad. of Med. Sci., USSR, Leningrad. *Mechanism of suppression of viral agents in innate-resistant organisms (Russian text) VOP. VIRUS 1956, 4 (10-19) Illus. 7

Inertia of phagocytosis was found in all virus infections studied. Changes in body temperature play the greatest part in the destruction of extra-cellular virus. A lowering of the temperature enhances the survival of virus and, vice versa, the rise in temperature accelerates their destruction. A thermo-stable strain of influenza virus was produced after long acclimatization which survived 3-11 hr. at a heat of 52°. The original strain died in subcutaneous foci of white mice within 3 days and the thermo-stable strain after 10 days. Analogous results were obtained in studies of the characteristics of bacteriophage. On the basis of experiments on the interaction of influenza virus and tissue homogenate, the author denies any essential action of tissue enzymes in the destruction of virus. The investigations showed that the first stage in inactivation of virus - the loss of its biological activity - occurs without participation of tissue enzymes and is only connected with the body temperature and non-specific thermolabile virus-neutralizing substances of the living organism. The second stage - the loss of immunogenic and haemagglutinative characteristics - is accomplished by direct participation of tissue enzymes. Rapid inactivation of virus is often connected with thermolabile substances (inhibitors) of normal serum of animals. These inhibitors are not connected with the action of the complement because its elimination did not bring about the decrease in the inactivating properties of the serum. The other important factor of defence is in the process of formations of inclusions, which isolate the virus particles in the cytoplasm or nucleus of sensitive cells and cause their subsequent evacuation. In the immune organism the action of the virus-neutralizing anti-bodies is added, depriving the virus of their capacity of penetrating into the cells; this leads to the virus becoming inactive due to the influence of the body temperature. References 14.

Kaulen - Moscow

SMORODINTSEV, A.A.

Utilization of HeLa cells at the Siverton Laboratory. Vop.virus.
1 no.4:56-58 J1-Ag '56. (MLRA 10:1)

(TISSUE CULTURE,

HeLa cell culture (Rus))

(NEOPLASMS, experimental,

HeLa cell tissue culture (Rus))

SMORODINTSEV, A. A.

"The Use of New Methods of Tissue Culture for Studying the Etiology of Little-Investigated Virus Infections," by A. A. Smorodintsev, Voprosy Virusologii, Vol 1, No 5, Sep/Oct 56, pp 48-51

US studies of the etiology and prophylaxis of measles, hepatitis, chicken pox, influenza, tularemia, and Brill's Disease are reviewed. Most of the studies were conducted at Harvard University in the Enders Laboratory; work by Salk, Syverton, Smadel, Henley, Rao, Snyder, Murray, and Price is also mentioned.

Sum 1239

SMORODINTEV, A.A.

Studies of the characteristics of the defense mechanisms
in anti-viral immunity. Stud. cercet. inframicrobiol., Bucur.
7 no.3-4:233-251 July-Dec 56.

1. Sectia de virusologie a Institutului de medicina experimentală
al Academiei de stiinte medicale a U.R.S.S.

(IMMUNITY

defense mechanisms in anti-viral immunity)

(VIRUS DISEASES, immunology

defense mechanisms in anti-viral immunity, regulation
by CNS)

SMORODINSEV, A.A., prof.

In the laboratories of American specialists on poliomyelitis.
Vest.AMN SSSR 11 no.4:60-65 '56. (MIRA 12:10)

1. Chlen-korrespondent AMN SSSR.
(POLIOMYELITIS, prev. and control.
laboratories of polio. specialists in U.S.)
(LABORATORIES, MEDICAL
same)

E

Country : USSR
Category: Virology. Bacterial Viruses (Phages)

Abs Jour: Ref Zhur-Biol., No 23, 1958, 103475

Author : Smorodintsev, A. A.; Petrov Yu. K.

Inst : "
Title : Bacteriophage as a Model for the Study of Anti-
Virus Immunity on Laboratory Animals.

Orig Pub: Sb. Bakteriofagiya. Tbilisi, Gruzmedgiz, 1957,
71-79.

Abstract: An experimentally obtained thermostable phage to the
Bacillus mycoides was found in a subcutaneous focus
for 10 days after subcutaneous injection into white
mice, while the original heat-sensitive phage was
found for only three to four days. After intravenous
injection the former was preserved in the organism for

Card : 1/3

9

Smorodintsev A.
EXCERPTA MEDICA Sec 5 Vol 12/2 Gen. Path. Feb 59

366. MORPHOLOGICAL STUDY OF CHANGES IN THE RESPIRATORY TRACTS OF WHITE MICE INFECTED WITH INFLUENZA VIRUS AFTER EXPOSURE TO X-RAYS (Russian text) - Smorodintsev A. - VOPR. VIRUSOL. 1957, (290-296) Graphs 1 Tables 1 Illus. 3

The influenza strain A' 3711 fails to cause a fatal infection in mice, but 14- to 16-g. mice inoculated intranasally with 10% allantoic fluid culture showed lesions in the epithelium of the lower respiratory tract. If the nasal instillation is preceded by irradiation with 400 r., the lesions are more pronounced and the infection takes a protracted course. In irradiated mice the process leads to epithelial desquamation. Focal inflammation of lung tissue with round-cell infiltration happened only in irradiated mice. Irradiated but non-infected mice showed no lesions.

Gross - Berlin (IV, 5)

SMORODINTSEV, A.A.; ZHDANOV, V.M.

Results and current tasks in the study of living influenza vaccine.
Vop.virus. 2 no.2:67-72 Mr-Apr '57. (MLRA 10:6)
(INFLUENZA, prev. & control
vaccine, live (Rus)

EXCERPTA MEDICA Sec.13 Vol.4/5 Pub.Health, Etc. May 58

~~SMORODINTSEV A.~~

1556. SERUM AGAINST GRIPPE' - Smorodintsev A. - INDIAN PRACTITIONER
1957, 10/4 (358-360)

This paper claims that Soviet science has produced a specific serum which can be
inhaled and is effective in the prevention and treatment of grippe.

Simpson Smith - Wolverhampton (L, 6,4,17)

BRONKHORST, A. A.

"Problem of Immunity of Virus Infection."

report presented at the 2nd Conference of Czechoslovak Virologists, 14-17 Oct 1958,
in Saolenice, Bratislava, Czech.

GEORGIYEV, A. A. and V. I. TILYUNKO

"Epidemiological Variants of Tick-Borne Spring-Summer Encephalitis Infections
in European USSR."

report ^{presented} submitted at the Sixth International Congress of Tropical Medicine and
Malaria, Lisbon, 5-13 September 1958.

Inst. affil: Inst. of Experimental Medicine, Leningrad

SMORODINTSEV, A. A. and KLACHKO, N. S.
Department of Virology, Pasteur Institute of Epidemiology and Microbiology in Leningrad.

"Properties and Immunogenic Efficiency of Attenuated Variants of Mumps Virus."
paper presented at 7th Intl. Cong. on Microbiology, Stockholm, 4 - 9 Aug 1958.

Comments: B- 3,117,873, 3 Aug Dec 58.

USSR/Virology. Human and Animal Viruses. Grippe Virus

E

Abs Jour : Ref Zhur - Biol., No 4, 1959, No 14634

Author : Smorodintsev A.A.

Inst : Academy of Medical Sciences of USSR.

Title : The Results and Problems of Specific Prophylaxis and Therapy
of Influenza

Orig Pub : Vestn. Akad. med. nauk SSSR, 1958, No 3, 20-30.

Abstract : No abstract

Card : 1/1

SMORODINTSEV, A.A., ALEKSANDROVA, G.I., LUZYANTINA, T.Ya., MOROZENKO, M.A.,
SELIVANOV, A.A.

Virological and serological characteristics of the influenza
pandemic of 1957. Trudy Len. inst. epid. i mikrobiol. 1958-91
58. (MIRA 1622)

1. Otdel virusologii Instituta eksperimental'noy meditsiny AMN
SSSR, Leningrad.
(LENINGRAD- INFLUENZA- MICROBIOLOGY)